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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/757,121	01/09/2001	Hariprasad Sreedharamurthy	MEMC 99 - 2950 (2702)	6581
321	7590 12/19/2002			
0211110211	POWERS LEAVITT	EXAMINER		
ONE METRO 16TH FLOOF	POLITAN SQUARE	KUNEMUND, ROBERT M		
ST LOUIS, M	IO 63102		ART UNIT	PAPER NUMBER
			1765	0
			DATE MAILED: 12/19/2002	O

Please find below and/or attached an Office communication concerning this application or proceeding.

	_		_		9				
		Application No.		Applicant(s)					
		09/757,121		SREEDHARAMURTHY ET AL					
	Office Action Summary	Examiner		Art Unit					
		Robert M Kunemu		1765					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHO THE N - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however,	er, may a reply be tim num of thirty (30) days IX (6) MONTHS from to become ABANDONED on, even if timely filed,	ely filed will be considered time he mailing date of this o (35 U.S.C. § 133). may reduce any	ely. communication.				
1)🛛	Responsive to communication(s) filed on 06	<u>December 2002 aı</u>	nd 16 October 2	<u>002</u> .					
2a) <u></u> □	This action is FINAL. 2b)⊠ Th	his action is non-fir	ıal.						
3)☐ Dispositi	Since this application is in condition for allow closed in accordance with the practice under ion of Claims	ance except for for Ex parte Quayle,	mal matters, pr 1935 C.D. 11, 4	osecution as to t 53 O.G. 213.	he merits is				
4) 🛛	Claim(s) <u>1,4-9 and 13-17</u> is/are pending in the	e application.							
	4a) Of the above claim(s) is/are withdra	wn from considera	ition.						
5)	Claim(s) is/are allowed.								
	Claim(s) <u>1,4-9 and 13-17</u> is/are rejected.								
	Claim(s) is/are objected to.								
-	Claim(s) are subject to restriction and/o	or election requirer	nent.						
-	ion Papers								
9) ☐ The specification is objected to by the Examiner.									
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) dbjecte	ed to by the Exa	miner.					
	Applicant may not request that any objection to the								
11)	The proposed drawing correction filed on	_ is: a)⊟ approve	d b)∏ disappro	ved by the Exami	ner.				
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority	under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
*	3.☐ Copies of the certified copies of the price application from the International B See the attached detailed Office action for a lis	lureau (PCT Rule 1	7.2(a)).		al Stage				
14) 🔲 .	Acknowledgment is made of a claim for domes	stic priority under 3	5 U.S.C. § 119(	e) (to a provision	al application).				
15) <u></u>	a) $\square$ The translation of the foreign language polyacheous Acknowledgment is made of a claim for domes	rovisional applicati stic priority under 3	on has been red 5 U.S.C. §§ 120	ceived. O and/or 121.					
Attachme	nt(s)								
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	4)		y (PTO-413) Paper N Patent Application (F					
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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 9 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Su 1,680,810 in view of Jp 03290393.

The Su 1,680,810 reference teaches an apparatus for czochralski growth. The apparatus consists of a crucible supported by a susceptor. The walls of the crucible and the susceptor are even in height. There is a heater that surrounds the crucible and susceptor. The melt is placed in the crucible and pulled. There is also a ring around the top of the susceptor and crucible, note figure 2. The difference between the instant claims and the prior art is the sealing means. However, the Jp 03290393 reference teaches that a ring that surrounds the top of the susceptor and the crucible as a seal

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note translated abstract. It would have been obvious to one of ordinary skill in the art to modify the Su 1,680,810 apparatus by the teachings of the Jp 03290393 reference to have the ring as a seal in order to prevent impurities from entering the melt.

Claims 5 to 8 and 13 to 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Su 1,680,810 in view of Jp 03290393.

The Su 1,680,810 and Jp 03290393 references are relied on for the same reasons as stated, supra, and differ from the instant claims in the material of construction. However, in the absence of unobvious results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentations the optimum, operable materials of construction in the Su 1,680,810 and Jp 03290393 references in order to have an apparatus, which will be able to withstand the conditions of growth.

## Response to Applicants' Arguments

Applicant's arguments with respect to claims 1, 5 to 9 and 13 to 17 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M Kunemund whose telephone number is 703-308-1091. The examiner can normally be reached on 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ben Utech can be reached on 703-308-3636. The fax phone numbers for

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the organization where this application or proceeding is assigned are 703-305-3599 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

RMK

December 18, 2002

ROBERT KUNEMUND PRIMARY EXAM NER